MLH1 Monoclonal antibody

Catalog Number:60822-2-Ig

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:	60822-2-Ig
Size:	1000 μg/ml
Source:	Mouse
Isotype:	IgG1
Immunogen Catalog Number:	AG27723

GenBank Accession Number:	BC006850
GeneID (NCBI):	4292
UNIPROT ID:	P40692
Full Name:	mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli)
Calculated MW:	756 aa, 85 kDa

Purification Method:	Protein G purification
CloneNo.:	2D5A2
Recommended Dilutions:	IHC 1:1000-1:4000

Applications

Tested Applications:
IHC, ELISA

Species Specificity:
human

Note-IHC: suggested antigen retrieval with ***TE buffer pH 9.0;*** ***(*) Alternatively, antigen retrieval may be performed with*** ***citrate buffer pH 6.0***

Positive Controls:

IHC : Human tonsillitis tissue,

Background Information

MLH1, also named as COCA2, belongs to the DNA mismatch repair mutL/hexB family. It heterodimerizes with PMS2 to form MutL alpha which is a component of the post-replicative DNA mismatch repair system (MMR). MutL alpha (MLH1-PMS2) interacts physically with the clamp loader subunits of DNA polymerase III, suggesting that it may play a role to recruit the DNA polymerase III to the site of the MMR. MLH1 also implicated in DNA damage signaling, a process which induces cell cycle arrest and can lead to apoptosis in case of major DNA damages. MLH1 heterodimerizes with MLH3 to form MutL gamma which plays a role in meiosis.(PMID: 16873062, PMID: 18206974) Defects in MLH1 are the cause of hereditary non-polyposis colorectal cancer type 2 (HNPCC2). Defects in MLH1 are a cause of mismatch repair cancer syndrome (MMRCS). Defects in MLH1 are a cause of Muir-Torre syndrome (MTS). Defects in MLH1 are a cause of susceptibility to endometrial cancer.

Storage

Storage:
Store at -20℃. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
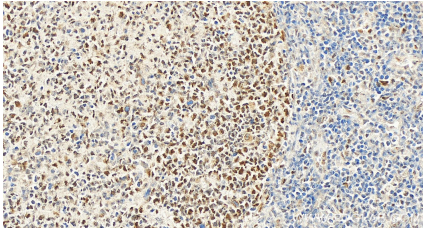Aliquoting is unnecessary for -20°C storage

Selected Validation Data

Immunohistochemical analysis of paraffin-embedded Human tonsillitis tissue slide using 60822-2-Ig (MLH1 antibody) at dilution of 1:2000 (under 40x lens).